(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 26 May 2005 (26.05.2005)

PCT

(10) International Publication Number WO 2005/047315 A2

(51) International Patent Classification7:

C07K 14/025

(21) International Application Number:

PCT/US2004/037372

(22) International Filing Date:

10 November 2004 (10.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

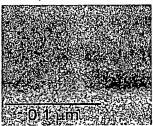
(30) Priority Data:

60/519,211

12 November 2003 (12.11.2003) US

(74) Common Representative: MERCK & CO., INC.; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.



(71) Applicant (for all designated States except US): MERCK & CO., INC. [US/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). BRYAN, Janine, T. [US/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). BROWNLOW, Michelle, K. [US/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). SCHULITZ, Loren, D. [US/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). SCHULITZ, Loren, D. [US/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). SCHULITZ, Loren, D. [US/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). SCHULITZ, Loren, D. [US/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). SCHULITZ, Loren, D. [US/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). SCHULITZ, Loren, D. [US/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). JANSEN, Kathrin, U. [DE/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). JANSEN, Kathrin, U. [DE/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). JANSEN, Kathrin, U. [DE/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). JANSEN, Kathrin, U. [DE/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). JANSEN, Kathrin, U. [DE/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). JANSEN, Kathrin, U. [DE/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). JANSEN, Kathrin, U. [DE/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). JANSEN, Kathrin, U. [DE/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). JANSEN, Kathrin, U. [DE/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). JANSEN, Kathrin, U. [DE/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). JANSEN, Kathrin, U. [DE/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). JANSEN, Kathrin, U. [DE/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). JANSEN, Kathrin, U. [DE/US]: 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). JANSEN, Kathr cal compositions comprising the HPV58 VLPs. The vaccines of the present invention provide effective immunoprophylaxis against papillomavirus infection through neutralizing antibody and cell-mediated immunity and are also useful for treatment of existing HPV infections.

